1912-13

Dogs

Oct 14 1912 - 25th Nov 1912

B.A.E. 35

BRITISH ANTARCTIC EXPEDITION, 1910.

METEOROLOGICAL OBSERVATIONS

TAKEN AT

The Great Ice Barrier — What Ho!

During 19

By

Position of Station: ~~Lat.~~ All over the ~~Long.~~ place

Height of Barometer Cistern above Mean Sea Level doubtful feet.

INSTRUMENTS IN USE, AND THEIR CORRECTIONS.

Aneroid BAROMETER, No. 753. COMPARED WITH ~~STANDARD~~ No 1157 reduced to 0°C. at Cape Evans in 1912. Oct

Correction required: Subtract 0"157 from Aneroid reading

THERMOMETERS VI XXV M.P.L. 10 (96)

Dry Bulb. No. ....

Max. in Shade. No. ....

Min. in Shade. No. ....

Max. in Sun. No. ....

Min. on Snow. No. ....

No. ....

No. ....

During the journey to the South I am entering the direction of sastrugi in the column marked ~~Hypsometer~~ "Cloud — direction from" The direction from which the wind has blown to form the "upper" sastrugi is entered.

The amount of sastrugi is entered in a scale from 0—10. in the column marked "Clouds — Direction from — lower"

WEATHER.—Initials of the Beaufort Notation and Symbols adopted by international agreement for recording phenomena of weather.

Initial	Symbol	Phenomenon
b.		blue sky
c.		detached clouds.
o		overcast.
m.	≡°	mist.
f.	≡	fog.
g.		gloomy.
u.		ugly, threatening.
z.	∞	dust haze or smoke.
v.		unusual visibility.
t.	T	thunder.
l.	<	lightning.
	K	thunderstorm.
r.	●	rain.
p.		passing showers.
d.		drizzling rain.
e.		wet air without rain falling.
s.	✱	snow.
	✛	snow drift.
	⊠	snow lying.*
	←	ice crystals.
h.	▲	hail.
	△	soft-hail.
w.	⌂	dew.
x.	⊔	hoar frost.
	V	silver-thaw. rime.
	~	glazed frost.
	↗	gale.
q.		squally.
	○	solar corona.
	⊕	solar halo.
	Ψ	lunar corona.
	⊕	lunar halo.
	⌒	rainbow.
	⊻	aurora.

* More than half the country in sight round the station covered with snow.

NOTE.—Do not use "h" for haze, nor "sh" for showers.

A line under an initial or the exponent "2," appended to a symbol, denotes intensity thus h̲ or $▲^2$ indicates heavy hail, ≡° indicates light fog or mist.

BEAUFORT WIND SCALE.

Beaufort Number.	Description of Wind.	Equivalent velocity in miles per hour.
0	Calm.	0
1	Light Breeze.	2
2		5
3		10
4	Moderate Breeze.	15
5		21
6	Strong Wind.	27
7		35
8	Gale forces.	42
9		50
10	Storm forces	59
11		68
12	Hurricane.	above 75

INSTRUCTIONS.

Barometer.—The aneroid barometer should be lightly tapped before taking a reading.

Hypsometer.—Only pure water obtained from snow to be used. No water should be allowed to splash into the bulb of the thermometer during an observation.

Thermometer.—The aluminium sling thermometer should be allowed to remain in the open for at least ten minutes before a reading is taken in order that the bulb may acquire a temperature near that of the air. When an observation is to be made the thermometer should be opened and swung for a minute; the swinging must then be repeated until three readings have been obtained, each giving the same temperature. The final steady reading should then be entered in the note book.

Wind.—All wind directions must be "true" and not "magnetic"

Clouds.—The proportion of the sky covered by cloud should be indicated on a numerical scale running from 0, cloudless, to 10, completely overcast. The numbers given are to refer solely to the amount of the sky covered and not to the density, height or other quality of the cloud. Fog must be regarded as a cloud at ground level, and 10 must accordingly be entered for the amount of cloud on foggy days. If clouds can be seen through a thin mist, the amount of real cloud should be entered in the column and a note made under "Remarks."

The following are the chief cloud forms:

Cirrus ...	(Ci) ...	High.
Cirro-Stratus	(Ci-St) ...	High.
Cirro-Cumulus	(Ci-Cu) ...	High.
Alto-Cumulus	(A-Cu) ...	High.
Alto-Stratus	(A-St) ...	High.
Strato-Cumulus	(St-Cu) ...	Low.
Cumulus ...	(Cu) ...	Low.
Stratus ...	(St) ...	Low.
Nimbus ...	(Nb) ...	Low.

Enter cloud directions as you would wind directions, *i.e.*, the direction from which they are coming.

Weather.—The Beaufort notation given on page 3 should be used.

Remarks.—Haloes and any unusual phenomena should be noted. It is also desirable that general topographical notes should be added, as for instance, "In valley running N.W.," "To-day's camp higher than yesterday's," etc.

BRITISH ANTARCTIC EXPEDITION, 1910. REMARKS.	OBSERVER'S INITIALS.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	Hyps-ometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	Direction from upper	Direction from lower
Oct 14th	7 pm	3 m from Safety Camp	—			−18	ENE.	1	Clear	3	A.St.		
	10.45 pm	8 m "	" "	28.9		−32	L.A	L.A	Overcast	10	A.St.		
15th	8 am	" "	" "	28.87		−24	ESE	1-2	Overcast	10	St.		
	2 pm	14 m SE	" "	28.95		−15.5	ESE	1-2	Clear	7.	Stratus west		
	8 pm	4 M. ENE of C.C.		28.93.		−14	ENE.	2.	Clear.	6.	St.		
16th	8.30 AM	" " "	" " "	28.85		+8	SSE	~~10~~ 3-4	Cloudy	10	Ci.St.		
	12.30 pm	Corner Camp		28.90		+15	SSE	3-4	Snowing	10	—		
	7.30 pm	Corner Camp		28.91.		+14	SSE	6	———	——→	Blizzard.		

BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.

REMARKS.	OBSERVER'S INITIALS.
Several air bubbles in thermometer got out by heat	E.L.a
Erebus smoke coming away from close N.	SLA
Min for night −39°F. Cirrus generally and low [illegible]	SLA
stratus on horizon [illegible]	
2pm Erebus smoke coming from ENE Stratus over west	SLA
8pm Thick stratus to S of Bluff and over it. Erebus smoke going to SW. Minimum −25°F.	SLA
8AM Thick everywhere except over land.	SLA
12.30 PM. Snowing generally thick with large flakes.	SLA
7.30 pm Warm blizzard started at about 2 pm. One long lull at 6.30 and then full blast again	SLA

DAY.	HOUR	POSITION. Lat.	Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	Kind	Direction from upper	lower
17th Oct	10.10AM	Corner Camp		29.045	–	+15	ESE	6-7	Blizzard				
	7.20pm	"	"	29.11		+15	ESE	5	Blizzard				
18th Oct	8.30AM	"	"	29.14		+13	ESE	4-5	Taking off a bit				
	1.15pm	6m S of C.C.		29.06		+10	SSW	7	Blizzard.				
	5pm	12m " " "	"	29.51		+7	SSW	6	Drift clearing				
	10.30pm	Corner Camp		29.09		+7	SSW	3	Clearing.				
19th Octbr	9am	"	"	29.05		−5	NNW	2	Clear		Cirrus & Alto Stratus		
	3pm	18m S.S.E of C.C.		29.09		+7	NNW	1.2	Clear				

BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.	OBSERVER'S INITIALS.
Min for night. +14°F. Strong blizzard all day & night	ELA
7pm Lull in blizzard wind shifted a point. about 1pm	ELA
7.30. Blowing as hard as ever and thick again.	
8.30AM Blizzard clearing slightly, No Min for night.	ELA
1.30PM. Got underweigh with Bluff clear. Thickened up and drift and snow. Nothing now seen. Occasional "Aluminium Sun"	ELA
19th October Erebus smoke going from N.N.E. then Cirrus & Alto-stratus Min for night −10°F	ELA

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	Direction from upper	Direction from lower
Oct 25	8.10 pm	Biscuit Depot		29.11		-12	C	0	bc	3	cist		
26	8.15 am	"		29.06		-12	C	0	bc	2	cist		
	3.00 pm	Corner Camp.		29.05		+1	Starb	Sly	bc	7	cist		
	5.30 pm	"		29.03		-3	Starb	Sly	bc	4	cist		
	11.15 pm	Biscuit Depot		28.99		-15.2	Starb	Nly	oc	9	cist		
27.	10.00 am	"		28.97 2		+6	Starb	Nly	oc	7	cist		

BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.	OBSERVER'S INITIALS.
Ross Island has been overcast, but has now cleared.	ACG.
Minimum 25th–26th – 24	ACG.
Erebus smoke from N.	ACG.
Erebus summit clouded up. Leaving Corner Camp temp rising – barometer falling	ACG.
It has been looking very black to E – now clearing	ACG.
Erebus smoke from Nth or NNE. Minimum 26–27th – 21.5.	ACG.

DAY.	HOUR	POSITION. Lat.	Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	Kind	Direction from upper	lower	BRITISH ANTARCTIC EXPEDITION, 1910. REMARKS.	OBSERVER'S INITIALS.
Nov. 2	12.5 am.	3 m E of Safety Camp.		28.78	–	–19.7	Nly	Lt airs	bc	4	Stratus			Heavy stratus over McMurdo Sound.	ACG
	5 am.	[illegible] Dep		28.70		–17.2	Nly	Lt airs	bc.	5	Stratocumulus			Ditto, & to E.	ACG.
	4.30 pm	"		28.69	* ↓	zero	SE	3	o	9	Str			Minimum for the day –22. Heavily overcast at 4 pm.	ACG
	9.45 pm	24 m. from H.Pt		28.74	*	zero	SE	2	o	9	Str.			Overcast but not so thick.	ACG
Nov 3	2.45 am	Corner Camp		28.79	↓ *	–0.5	S	3	o	10	Str			Heavily overcast. Bluff & parts of White Island alone visible.	ACG
	2.15 pm	"		29.01		+4	SSW	3	b	2	Str			Minimum for the day –27. Mild blizzard now passing away to NE.	ACG
	9.0 pm	W. Dimi. Dep.		29.03		–1.5	SW	2	bc	6	Str			Heavy stratus to E.	ACG
	2.00 am	[illegible] Dep		29.07	*	–5	–	c	o	10	Str				ACG
Nov 4.	1.00 pm	"		29.12	* ↓	+6	SSE	5	o	10	Str			Minimum since halt –4. Moderate blizzard blowing.	ACG
	11.30 pm	S end Bluff		29.12		–1.5	S	3	o	10	Str				ACG
Nov 5	4.30 pm	"		29.08		+6.7	–	c	o	10	Str			Minimum since halt –2.5	ACG
	8.45 pm	"		29.04		+1.5	–	c	o	9	Str			All sastrugi up to ~~this date~~ Dimitri Dept have pointed towards the E end of the Bluff.	ACG

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	~~Hypsometer~~	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	Sastrugi Direction from (~~upper~~)	(~~lower~~) Amount	REMARKS.	OBSERVER'S INITIALS.
Nov 6.	1.00 am	off the Bluff.		28.95	~~SW.~~	-7	–	c	b	3	St.	SW	9	Ugly blizzard clouds during evening to N, NE and E: now rolling away to NE.	ACG.
	7.45 pm			28.93	~~9~~	-7.5	SW	3	bc.	4	St.			Bank of clouds to SE. Has been blowing & drifting up to force 5 – with clear sky.	ACG.
Nov. 7.	2.30 am.			28.96	~~little more westerly~~	-9	Sly	lt airs	oc	8	St cu.	more westerly	8	It has been generally overcast, but as yesterday, as the sun rises the clouds are dispersing.	ACG.
	7.00 am.			29.00	~~8~~	-14.5	–	c	b	2	St.	little S of SW	8	Clouds have disappeared to SE, as the sun has risen –	ACG.
	7.30 pm			29.16		-6.5	Sly	lt airs	b	0	–			Minimum since halt –13.	ACG.
Nov. 8.	2.20 am	N. Bluff Depot		29.16		-23	–	c	b.	0	–	Same	7	Clear and cold. Much mirage –	ACG.
	6.45 am	3 m past Bluff Dep.		29.30		-18.5	–	c	b.	0	–	Same.	6	Much mirage –	ACG.
	7.40 am	"		29.35		-9	–	c	o	10	ost.			Thinly overcast.	ACG.
Nov 9.	2.00 am	10 m past Bluff Dep.		29.26			Nly	lt airs	bc	4	St.	WSW	6	Heavy threatening stratus to North –	ACG.
	6.45 am			29.22		-6	NW	2	bc	5	St.			ditto.	ACG.
	8.00 pm			29.14		-2.5	NW	lt airs	bc	3	St.			Minimum since halt –8.5	ACG.

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	~~Hypsometer~~ Sastrugi	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	~~Direction from upper~~ Sastrugi	~~lower~~	REMARKS.	OBSERVER'S INITIALS.
Nov 10	2.10am	9m N. 1 Ton		29·04		-15	Nly	Hvro	bc	3	Str.			-19 when we started.	ACG
	8.00pm	4m. N. 1 Ton		29·09		-7	SW	3	oc	10	Str.				ACG
Nov 11.	8.45am	One Ton Dep.		29·00	↓→	-1·2	SW	3-4	bc	6	a.str	S & SW	5	Surface Drift	ACG
	9.50pm	"		29·04	↓→	-2·5	SW	3	b	0	-			Ditto	ACG
Nov. 12	2.15am	—		29·19		-16	Sly	1-2	b	1	Str Cu.			Beautiful whale back clouds over Bluff & Mt Discovery	ACG
Nov 13	7.00am	79°	57'	29·11	↓→	-4·5	SW	3	bc	6	a.str			Surface drift - air full of fog crystals. Very beautiful Ci Str over the sun all night.	ACG
	8.00pm	79°	57'	29·12		+6·7	SW	1-2	bc	4	Str			Wind & drift during the day.	ACG
Nov 14.	1.30am	80°	05'	29·18		-14·7	SW	2	oc	7	a.str	SW	3-4	Several undulations in Barrier during last march.	ACG
	7.15am	80°	10	29·11	↓→	+2·5	SW	4	oc	6	Str.			Heavy stratus to N and W.	ACG
	8.00pm			28·86	↓→	+11	SW	5	b	0	-	SSW	3	Blizzard all day - now clearing & surface drift only	ACG
Nov 15	2.15am	80	05	28·78	↓→	+7	SW	4	oc	8	Str Cu.				ACG
															ACG

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION. Lat.	Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	Kind	Direction from upper	lower	REMARKS.	OBSERVER'S INITIALS.
Nov 15	6.45 am	79°	57'	28.70	↓→	+18.5	SW	3-4	oc	9	St			Clear over the land – overcast elsewhere.	ALG
	8.30 pm	"	"	28.52	→	+11	SW	4	o	10	St			A big fall in barometer since yesterday.	ALG
16.	3.00 am	"	"	28.46	* ↓→	+11.5	SW	7	o	10	St			Full blizzard started between 9 and 10 pm. Barometer still falling.	ALG
	7.20 am	79°	50'	28.42	* ↓→	+19.2	SW	3	o	10	St			The falling snow is of big downy crystals and the drift is thick.	ALG
	8.00 am				*	+22	—							Blizzard stopped between 3 & 4 am: now snowing thickly again.	ALG
	8.45 pm			28.60		+11.5	C	0	o	10	St				ALG
17	2.00 am	79°	43'	28.57		+10.5	C	0	o	10	St			Overcast warm weather seems to be general, and it is generally snowing.	ALG
	7.00 am	One Ton	Depot	28.58	*	+6	WSW	2	o	10	St			Ditto	ALG
	10.00 pm	"		28.76	* ↓→	+20	S	3-	o	10	St			Ditto. Wind and drift during the day.	ALG
18	1.50 am	79	31'	28.80	*	+19	SSE	2	o	10	St			Ditto	ALG
	8.45 am	79	25	28.80	↓→	+21.5	SW	4	o	10	St			Drifting moderately. Signs of clearing to SW.	ALG

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	Direction from upper	Direction from lower	REMARKS.	OBSERVER'S INITIALS.
November 18th		79°	25'	28.62		+21	SW	4	o	10	St			Strong wind and a good deal of drift during the day	ALG
Nov. 19.	9.00 pm 1.35 am	79°	18'	28.63		+18	SW	3-4	o	10	St.			Bluff visible.	ALG.
	6.00 am	79°	13'	28.64	↓→	+18	SW	5	o	10	St.			Wind & drift has been almost continuous the last 9 days. Bluff cap on.	ALG
	9.30 pm			28.71	✱ ↓→	+20	SW	3-4	o	10	St			A lot of wind and drift during the day. Still drifting.	ALG
Nov. 20.	1.30 am	Bluff	Depot	28.75	✱ ↓→	+19	WSW	3	o	10	St			Snowing thickly – a very blind day.	ALG
	6.30 am	79	02	28.85	✱ ↓→	+22.5	SW	5	o	10	St			Blizzard during last march. Better now.	ALG
	9.10 pm			29.05	✱	+23	SW	2-3	o	10	St			Snow & drift during the day. Bluff just visible. Steady rise in barometer.	ALG
Nov 21	2.55 am	78	55	29.12		+13.5	–	c	bc	4	St			Has cleared generally. Misty over land. Distance seemed to pass	ALG.
	8.05 am	78	50	29.18		+17.	NE	2	o	10	fog.			Fog rose as sun lost its power. Fog bow & corona	ALG
	9.15 pm			29.38		+17.5	–	c	b	0	–				ALG.
Nov 22	1.45 am			29.43		+9.5	Aly	lt air	o	10	fog			Fog rose as sun lost its power.	ALG.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	Direction from upper	Direction from lower	BRITISH ANTARCTIC EXPEDITION, 1910. REMARKS.	OBSERVER'S INITIALS.
Nov 22	6.45 am	78°	37'	29.50		+17.7	C	–	b	0	–			A very fine morning. Considerable mirage.	ACG
	9.20 pm			29.58		+13	C	–	bc	4	ci-str				ACG
Nov 23	1.30 am	78°	30'	29.57			Slg	lt airs	o	10	fog			Stratus cloud can be seen through fog at zenith. Fog came up from Ross & White Islands	ACG
	6.30 am	Demetri Dep.		29.60		+23	C	–	o	10	fog			Fog alternately thickening & thinning. Now thick. Sun visible at times.	ACG
	9.20 pm			29.64	*	+21.5	S	1	o	10	str			Still overcast, and only foothills of White Island visible all day.	ACG
Nov 24	3.35 am	Corner Camp		29.66	*	+19.2	C	–	o	10	str			Signs of clearing to the East. All land obscured.	ACG
	7.20 am	6 m. W Corner C.		29.69		+24.2	C	–	o	10	str			Land began clearing all round at 5.	ACG
	7.00 pm			29.67		+19.5	SSW	3	o	10	ci-str			Land clear. Thin covering of ci-str over the sky.	ACG
Nov 25	1.00 am	4 m E Safety Camp		29.65	→ ↓	+12	ESE	4	bq	7	ci-str				ACG
	7.00 am	Hut Point		29.65	→ ↓	+19.7	ESE	7–8	bc	7	ci-str				ACG

DAY.	HOUR	POSITION.		Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD.			
		Lat.	Long.							Amount	Kind	Direction from upper	Direction from lower

BRITISH ANTARCTIC EXPEDITION, 1910.

REMARKS.	OBSERVER'S INITIALS.

BRITISH ANTARCTIC EXPEDITION, 1910.

DAY.	HOUR	POSITION. Lat.	POSITION. Long.	Bar	Hypsometer	Dry Bulb	Wind Dir. True	Wind Force	Weather	CLOUD. Amount	CLOUD. Kind	CLOUD. Direction from upper	CLOUD. Direction from lower	REMARKS.	OBSERVER'S INITIALS.